What is claimed is:

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- 1. An electrochemical cell apparatus, comprising:
- a) a base having a first portion and a second portion and a plurality of wells defined in said base, extending from said first portion to said second portion, for defining a plurality of electrochemical cells commonly supported by said base;
 - b) at least two electrodes sealingly disposed in each electrochemical cell;
- c) a printed circuit board adjoining said second portion having defined thereon an individually addressable electrical communication path for electrically interfacing with each of said electrochemical cells;
- d) circuitry for providing an electrical connection between an electrical source and said electrodes in each said cell via said printed circuit board.
 - 2. An electrochemical cell apparatus, comprising:
- a) a base having a first portion and a second portion and a plurality of wells defined in said base, extending from said first portion to said second portion, for defining a plurality of electrochemical cells commonly supported by said base;
- b) at least two electrodes sealingly disposed in each electrochemical cell;
- c) a printed circuit board adjoining said second portion having
 defined thereon an individually addressable electrical communication path for electrically interfacing with each of said electrochemical cells;
 - d) power source; and
- e) circuitry for providing an electrical connection between said power source and said electrodes in each said cell via said printed circuit board.
 - 3. An electrochemical cell apparatus, comprising:
 - a) a base having a first portion and a second portion and at least eight wells defined in said base and having an associated first threaded

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portion, extending in an axial direction from said first portion to said second portion, for defining a plurality of electrochemical cells commonly supported by said base;

- b) a sheath assembly having an associated second threaded portion for engaging said first threaded portion and projecting into each of said wells a first sheath and a second sheath, each having a longitudinal axis;
- c) a reference electrode in said first sheath for sealing disposition in each electrochemical cell generally in said axial direction;
- d) a counter electrode in said second sheath for sealing disposition in each electrochemical cell generally in said axial direction and generally parallel with said reference electrode;
- e) a printed circuit board adjoining said second portion having defined thereon an individually addressable electrical communication path, including individual traces electrically connecting with a working electrode corresponding to each of said wells on for electrically interfacing with each of said electrochemical cells;
 - f) a potentiostat/galvanostat; and
- g) circuitry for providing an electrical connection between said potentiostat/galvanostat and said electrodes in each said cell via said printed circuit board.
- 4. The apparatus of claim 1, further comprising said electrical source and wherein said electrical source is a multi-channel potentiostat/galvanostat.
- 5. The apparatus of claim 1, wherein said electrodes include a working electrode and a counter electrode.
- 6. The apparatus of claim 5, further comprising a reference 30 electrode.
 - 7. The apparatus of claim 1, wherein said individually addressable electrical communication path includes a substantially circular metal conductor.

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- 8. The apparatus of claim 2, wherein said printed circuit board is separately fabricated from said base.
- 5 9. The apparatus of claim 2, wherein a threaded assembly is employed for projecting disposition of electrodes into said well.
 - 10. The apparatus of claim 2, wherein said electrodes include a working electrode and a counter electrode.
 - 11. The apparatus of claim 10, further comprising a reference electrode.
- 12. The apparatus of claim 10, wherein said working electrode is supported on a surface of a support member in spaced relation to said printed circuit board.
 - 13. The apparatus of claim 12, further comprising a second printed circuit board for contacting at least one of said electrodes.
 - 14. The apparatus of claim 3, wherein said potentiostat/galvanostat is a multi-channel potentiostat/galvanostat.
- 15. The apparatus of claim 3, wherein said traces originate at a multi-pin connector on said printed circuit board.
 - 16. The apparatus of claim 3, wherein said longitudinal axes of each of said sheaths are generally parallel to each other.
- 30 17. The apparatus of claim 3, wherein said circuitry connects to said multi-pin connector with a ribbon cable.

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- 18. The apparatus of claim 3, wherein said individually addressable electrical communication path includes a substantially circular metal conductor.
- 5 19. The apparatus of claim 3, further comprising a second printed circuit board for contacting at least one of said electrodes.
 - 20. The apparatus of claim 18, wherein said printed circuit boards are disposed in generally opposing relation to each other.